Appl. No.: 10/663,594

Amendment dated October 21, 2004 Reply to Office action of July 28, 2004

Amendments to the Claims:

1. (Currently Amended) A thermoelectric generator comprising a plurality of thin-film n-type and p-type semiconductor elements that are placed alternately on a dielectric substrate made of a ceramic and are connected in pairs at their ends to form a plurality of thermocouples, characterized in that wherein said elements are polycrystalline semiconductor ceramics and in that the dielectric substrate is thermally insulating and made of a microporous ceramic and has a thermal conductivity of less than 0.5 W/mK.

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2. (Cancelled)

- 3. (Currently Amended) The generator as claimed in Claim 1, characterized in that wherein the semiconductor ceramics have thicknesses of less than 2 mm.
- 4. (Currently Amended) The generator as claimed in Claim 1, characterized in that wherein the semiconductor ceramics are sintered on the substrate.
- 5. (Currently Amended) The generator as claimed in Claim 1, eharacterized in that wherein the semiconductor elements deposited on the substrate are connected in series and/or in parallel.
- 6. (Currently Amended) The generator as claimed in Claim 1, eharacterized in that it comprises and comprising a plurality of superposed substrates carrying semiconductor elements, the semiconductor elements of [[the]] a substrate being connected together in series and being connected in series or in parallel to the semiconductor elements of another substrate.
- 7. (Currently Amended) The generator as claimed in Claim [[1]] 6, characterized in that wherein the substrates are in the form of strips, cylinders, washers or half-washers.

8-15 (Cancelled)

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16. (Currently Amended) The generator as claimed in Claim 3 wherein the semiconductor ceramics have a thickness between greater than 0.04 mm and lower than 2 mm.